

Work Order ID 87270

87270

Page 1

July-11-12 12:51:49 PM

Item ID: D3910-1

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Crosstube Lug

Start Date: 7/06/12 Start Qty: 30.00

30

Cust Item ID:

Required Date: 8/03/12 Req'd Qty: 30.00

30

Customer:

Reference:

Approvals:

Process Plan:

CZ

Date: 12/07/11 Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start ***NR1***

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3910	B

100

0.00

100

Bandsaw

Memo

0.00

Jeaspa Bandsaw

~~CUT BLANK 1.450" LONG~~

cut @ meter

110

0.00

110

HAAS

Memo

0.00

HAAS CNC vertical machine #1

MACHINE AS PER FOLIO FA865 AND DWG

FOLIO REV: _____

DWG REV: _____

DEBURR

R/O: 17422

issue R/O to meter

machine as per dwg D3910 REV. B

CZ

CZ 12/07/11 30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Item Name: Crosstube Lug

Start Date: 7/06/12 Start Qty: 30.00 *30*

Cust Item ID:

Required Date: 8/03/12 Req'd Qty: 30.00 *30*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*
Stop *NR2*

Sequence ID/ Work Center ID Operation Description Set Up/ Run Hours

120 ~~QC~~ QC2-Inspect parts off machine FAI/FAIB 0.00

120 QC Memo 0.00

Quality Control

need + inspect for transit damage.
attached c/c to W/O

130 QC8-Inspect parts - second check 0.00

130 QC Memo 0.00

Quality Control

140 Chemical Conversion Coat per QSI005 4.1 0.00

140 HandFinish Memo 0.00

Hand Finishing

Tool ID Tool # Plan Code Accept Qty Reject Qty Reject Number Insp. Stamp

16/11/12 (30)

cuts
730

30 16 12-7-26

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Item Name: Crosstube Lug

Start Date: 7/06/12 Start Qty: 30.00 ***30***

Cust Item ID:

Required Date: 8/03/12 Req'd Qty: 30.00 ***30***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum	0.00							
150									
Powdercoat	Memo	0.00							
Powder Coating									
m(21841)									
160	QC3- Inspect Part Finish	0.00							
160									
QC	Memo	0.00							
Quality Control									
170	Identify as per dwg & Stock Location: 144	0.00							
170									
Packaging	Memo	0.00							
Packaging									

Start Time: 9:30
Temp: 3200F
Finish Time: 10:00

30X

✓

M-L
12/7/27

30

✓

12-7-07

30

12/7/27

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 4

July-11-12 12:51:49 PM

Item ID: D3910-1

Accept

N9000040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Crosstube Lug

Start Date: 7/06/12 Start Qty: 30.00 *30*

Cust Item ID:

Required Date: 8/03/12 Req'd Qty: 30.00 *30*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

180

QC21- Final Inspection - Work Order Release

0.00


180

QC

Memo

0.00

Quality Control

12/7/31 

MLJ 12/07/30

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

Picklist Print

July-11-12 12:51:49 PM

Page 1

Work Order ID: 87270

Parent Item: D3910-1

Parent Item Name: Crosstube Lug

Start Date: 7/06/12

Required Date: 8/03/12

Start Qty: 30.00

Required Qty: 30.00

Comments: IPP REV:A NEW ISSUE 09-11-25 JLM VERIFIED BY:DD
03-23 JLM VERIFIED BY:DD

IPP REV:B AS PER REV B 10-

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2423 Lug Extrusion		Manufactured	No			100	f	429.0750	0.13	4.105263		02/21/07/11	

Location

Loc Qty

Loc Code

MAT006

429.075

43722

161.5

68331

43.8506

81557

223.7244

4.11

D3910-1P

X 30

Revised 7/24/12 (30)

Dart Aerospace Ltd

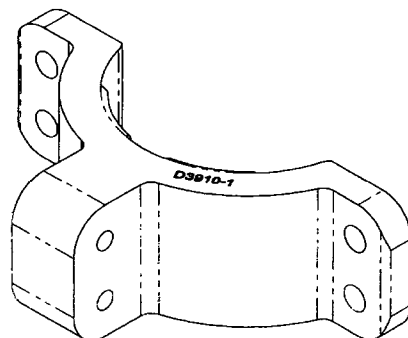
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

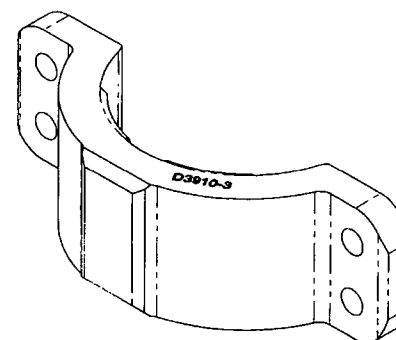
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D3910-1 X-TUBE LUG





D3910-3 X-TUBE LUG

CL 2107/11
W10: 87270

NOTES:

- 1) MATERIAL: MAKE FROM D2423 EXTRUSION
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE PART NUMBER TO A DEPTH OF 0.010 \pm 0.005 IN THIS LOCATION WITH A TOOL TIP RADIUS OF 0.015 \pm 0.005
- 7) WEIGHT -1: 0.32 lbs
-3: 0.25 lbs

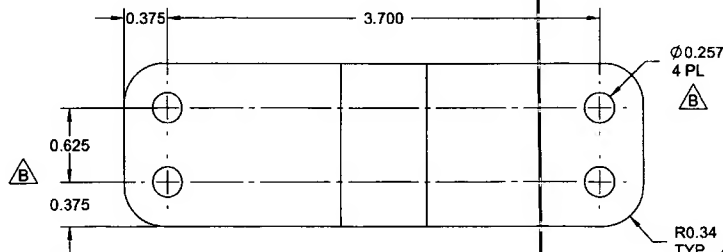
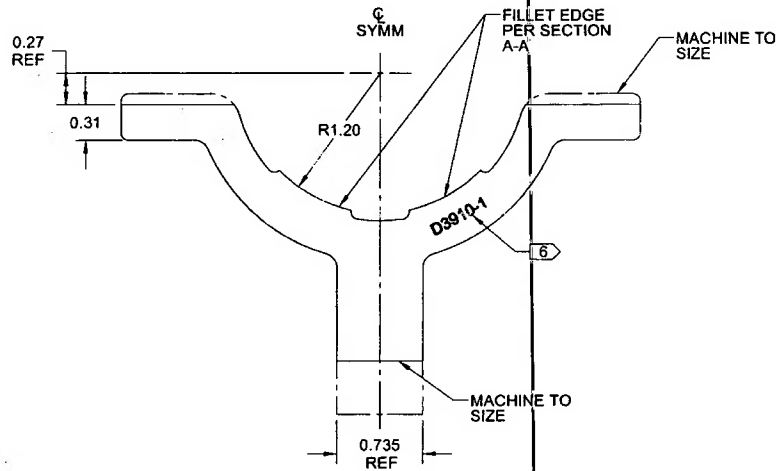
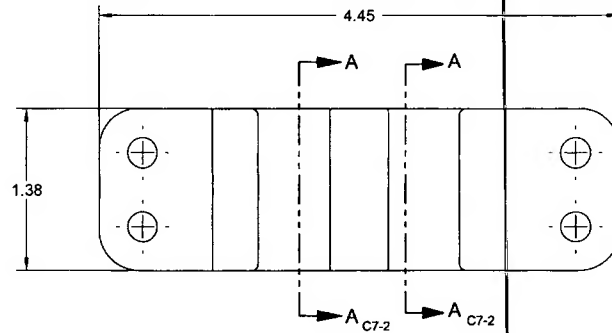
RELEASED
2010-03-22
MP

B	Ø0.257 HOLES: 4 PL WAS 2 PL (A3-2) & (A3-3); R0.34 FILLET WAS R0.50 (A3-2) & (A3-3). REASON: SEE TR-D350-607-2		JPH	10.03.16
A	NEW ISSUE		JPH	10.03.04
REV.	DESCRIPTION		BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	JPH			
CHECKED		DRAWING NO.	REV.	
MFG. APPR.		D3910	SHEET 1 OF 3	
APPROVED		TITLE	SCALE	
DE APPR		X-TUBE LUG (350)	NTS	
DATE	10.03.16	COPYRIGHT © 2010 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>		

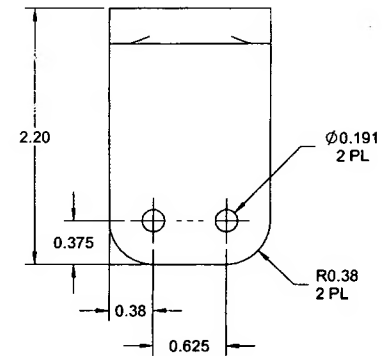


ROUND EDGE
R0.06 MIN - R0.10 MAX
2 PL

SECTION A-A
C4-2
C5-2



D3910-1 X-TUBE LUG



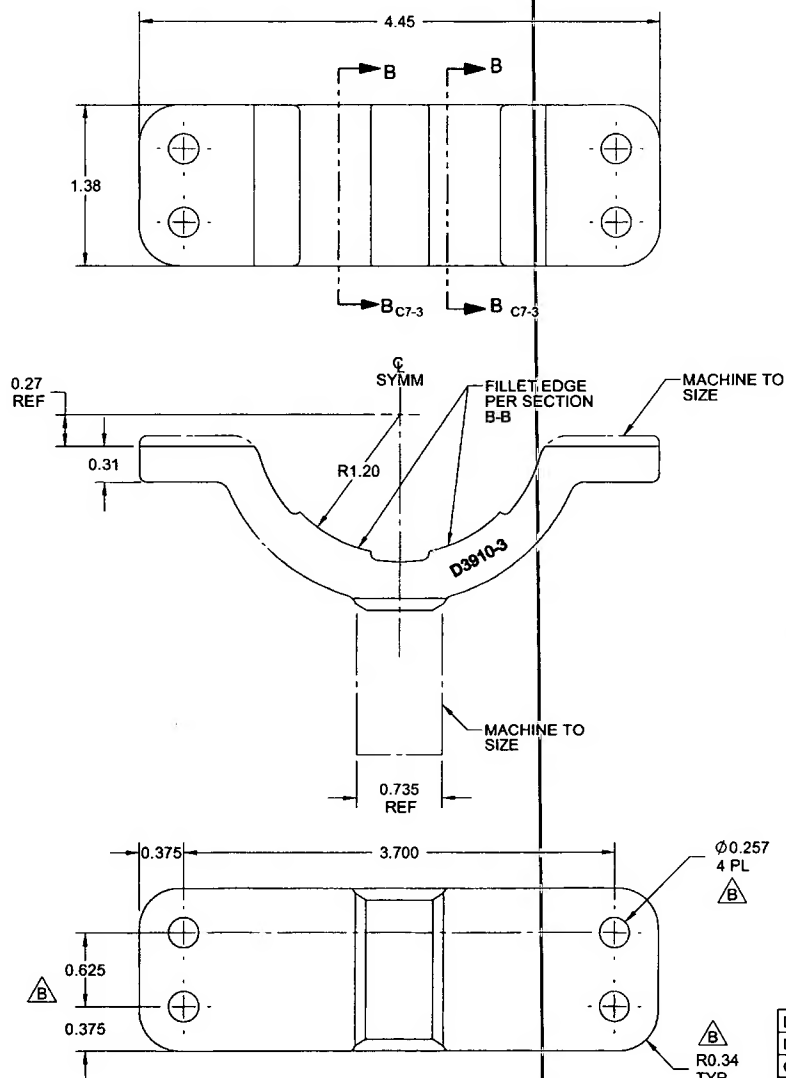
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2010-03-22

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DRAWN	JPH	HAWKESBURY, ONTARIO, CANADA	
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MFG. APPR.		D3910	SHEET 2 OF 3
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SECTION B-B
C4-3
CS-3



ROUND EDGE
R0.06 MIN - 0.10 MAX
2 PL



D3910-3 X-TUBE LUG

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2010-03-22

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DRAWN	JPH	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3910	SHEET 3 OF 3
APPROVED		TITLE	SCALE
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20 Terry Fox Drive
Vankleek Hill, Ontario K0B 1R0 , Canada
Tel: (613) 678-3957
Fax: (613) 678-3956

Delivery Slip No.: 18582
Date: Jul 24, 2012
Page: 1

Sold to: Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7	Ship to: Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7
Order No.: 17422	Sold By: Dewar, Eric
Shipped By: your truck	Ship Date: Jul 24, 2012

Description	Unit	Ordered quantity	Shipped quantity	Backorder quantity
D3910-1 Crosstube Lug as per drawing D3910 REV.B B87270	Each	30	30	
The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.				
Received by _____		Thank you for your order!		



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0
Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>PART NAME</u>	<u>P.O. NUMBER</u>
30	D3910-1P	Lug	17422

MATERIAL: supplied by DART B81557

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

Jan Norris

Vankleek Hill, July 24, 2012